

# PATENT SPECIFICATION

DRAWINGS ATTACHED

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## COMPLETE SPECIFICATION

### Improvements in or relating to Toy Pistols

We, HO TZE MAN and WONG WEI MAN trading as MEI TAT MANUFACTORY, all of 3—5, Wan Fat Street, ground floor, Kowloon, Hong Kong, both Chinese citizens, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a toy pistol.

It is an object of the present invention to provide a toy pistol which is of simple construction and is arranged to function in more than one way.

According to the present invention a toy pistol comprises a butt arranged as a water reservoir, a plunger-type pump actuable by the trigger of the pistol to pump water from the reservoir to a forwardly-directed outlet orifice at the muzzle of the pistol, an elongated tube mounted axially in the body of the pistol and having an open forward end, and a plunger arranged for axial movement within the tube and extending rearwardly where it is provided with a portion arranged to be engaged by the finger(s) or hand of the user, the forward end of the tube being arranged as an outlet opening at which a toy shell can be positioned so that forward movement of the plunger will project the shell under air pressure from the end of the tube. Thus, the pistol can function as a water pistol or as a so-called "pop-gun" or as both.

An embodiment of the invention will now be described, by way of example, with reference to the accompanying drawing in which:

Figure 1 is a front perspective view from beneath of a toy pistol which can function either as a water pistol or as a pop-gun or as both;

Figure 2 is a sectional elevation of the pistol shown in Figure 1; and

Figure 3 is a cross-section to an enlarged scale on the line III—III of Figure 2, showing

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ing the pop-gun plunger in the retracted position.

Referring to the drawing, the pistol includes a butt 10 which is arranged as a water reservoir and a plunger 11 is actuable by a trigger 12 to pump water from the reservoir through a pipe 13 to a forwardly-directed outlet nozzle 14 at the muzzle end of the pistol. The pump has a downwardly-extending one-way valve arrangement 15 which extends towards the base of the reservoir in butt 10. An elongated tube 16 in the form of a hollow cylinder having an open forward end is mounted axially in the body of the pistol and arranged parallel to and just beneath the barrel, and a plunger 17 arranged for axial movement within the tube extends rearwardly where it is provided with a cross-piece 18 arranged to be engaged by the finger(s) or hand of the user. The plunger 17 comprises a stem 17a of cruciform section and a piston 17b. Two slotted arms 19 extend forwardly from the cross-piece to slide alongside the body of the pistol, the slots being engaged by shaped guides 20 which project from the sides of the pistol. It will be noted that the forward end of the tube 16 projects a short distance beyond the body of the pistol and forms a spigot mounting for a hollow toy shell 21. A downwardly-extending holder 22 for spare shells 21a is also provided at the forward end of the body of the pistol, the holder having a removable closure 23.

The reservoir can be filled with water through an opening which is arranged at the upper part of the butt of the pistol and is provided with a removable plug 24. It will thus be evident that the toy pistol, which is suitably formed from parts of a plastics material, can function as a water pistol on pressing trigger 12 and as a pop-gun when the cross-piece 18 is pulled rearwardly and then moved sharply forwardly to force a toy shell 21 from the end of the tube 16.

## WHAT WE CLAIM IS:—

1. A toy pistol comprising a butt arranged as a water reservoir, a plunger-type pump actuable by the trigger of the pistol to pump  
5 water from the reservoir to a forwardly-directed outlet orifice at the muzzle of the pistol, an elongated tube mounted axially in the body of the pistol and having an open forward end, and a plunger arranged for axial move-  
10 ment within the tube and extending rearwardly where it is provided with a portion arranged to be engaged by the finger(s) or hand of the user, the forward end of the tube being arranged as an outlet opening at which a toy  
15 shell can be positioned so that forward movement of the plunger will project the shell under air pressure from the end of the tube.
2. A toy pistol as claimed in Claim 1, in which said elongated tube is in the form of  
25 a hollow cylinder arranged parallel to and just beneath the barrel of the pistol.

3. A toy pistol as claimed in Claim 1 or Claim 2, in which a cross-piece is provided at the rear end of the plunger extension and two  
25 arms extend forwardly from the cross-piece to slide along the sides of the body of the pistol, the arms being engaged by guides projecting from the sides of the pistol.

4. A toy pistol as claimed in any preceding claim, in which a downwardly-extending holder  
30 for spare shells is provided at the forward end of the body of the pistol.

5. A toy pistol, constructed, arranged and adapted to operate substantially as hereinbefore described with reference to the accom-  
35 panying drawing.

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COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of  
the Original on a reduced scale

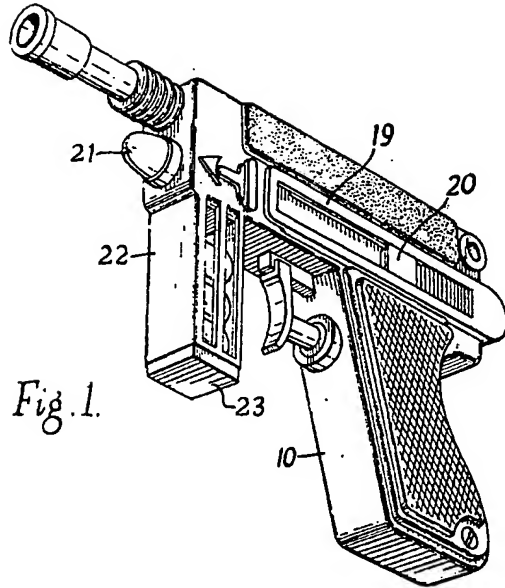


Fig. 1.

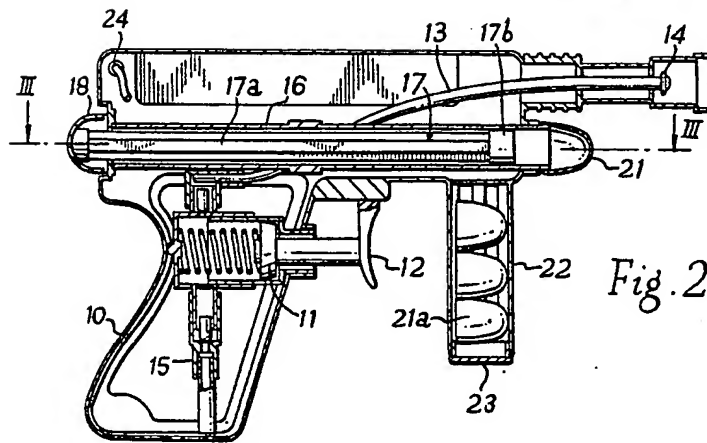


Fig. 2.

Fig. 3.

